

# Permit to Operate

**FACILITY:** C-535

**EXPIRATION DATE:** 01/31/200

**LEGAL OWNER OR OPERATOR:** FRESNO/CLOVIS REGIONAL WWTP

**MAILING ADDRESS:** 5607 W JENSEN AVE  
FRESNO, CA 93706-9458

**FACILITY LOCATION:** 5607 W JENSEN AVE  
FRESNO, CA 93706

**FACILITY DESCRIPTION:** WASTEWATER RECLAMATION FACILITY

The Facility to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

The Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

**DAVID L. CROW**

Executive Director / APCO

**Seyed Sadredin**

Director of Permit Services

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-0-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

## **PERMIT UNIT REQUIREMENTS**

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)], [Federally Enforceable Through Title V]
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)], [Federally Enforceable Through Title V]
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0], [Federally Enforceable Through Title V]
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (9/17/98). [District Rule 2010, 3.0 and 4.0; 2020; and County Rule 201 (in all eight counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1], [Federally Enforceable Through Title V]
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031], [Federally Enforceable Through Title V]
7. Every application for a permit required under Rule 2010 (12/17/92) (Permits Required) shall be filed in a manner and form prescribed by the District. [District Rule 2040], [Federally Enforceable Through Title V]
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.5.1], [Federally Enforceable Through Title V]
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.6.1], [Federally Enforceable Through Title V]
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520(6/15/95) [District Rules 2520, 9.6.2 and 1100, 7.0], [Federally Enforceable Through Title V]
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.8], [Federally Enforceable Through Title V]

## Initial TV Permit

13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.9.2], [Federally Enforceable Through Title V]
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.9.3], [Federally Enforceable Through Title V]
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.9.4], [Federally Enforceable Through Title V]
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.9.5], [Federally Enforceable Through Title V]
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.10], [Federally Enforceable Through Title V]
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.14.2.1], [Federally Enforceable Through Title V]
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.14.2.2], [Federally Enforceable Through Title V]
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.14.2.3], [Federally Enforceable Through Title V]
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.14.2.4], [Federally Enforceable Through Title V]
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (12/17/92), by using EPA method 9. If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
23. No person shall supply, sell, solicit or apply any architectural coating, except specialty coatings, that contains more than 250 grams of VOC per liter of coating (less water and exempt compounds, and excluding any colorant added to tint bases), or manufacture, blend, or repack such coating with more than 250 grams of VOC per liter (less water and exempt compounds, and excluding any colorant added to tint bases) for use within the District. [District Rule 4601, 5.1], [Federally Enforceable Through Title V]
24. No person shall apply, sell, solicit, or offer for sale any specialty architectural coating listed in the Table of Standards (District Rule 4601, Table 1 (12/17/92)), nor manufacture, blend, or repack such coating for use within the District, which contains VOCs (less water and exempt compounds, excluding any colorant added to tint bases) in excess of the specified limits listed in Table 1 of Rule 4601 (12/17/92). [District Rule 4601, 5.2], [Federally Enforceable Through Title V]
25. All VOC-containing materials shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained or repaired. [District Rule 4601, 5.4], [Federally Enforceable Through Title V]
26. A person shall not use VOCs for the cleanup of spray equipment unless equipment for collection of the cleaning compounds and minimizing its evaporation to the atmosphere is used. [District Rule 4601, 5.5], [Federally Enforceable Through Title V]
27. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.2 (12/17/92). [District Rule 4601, 6.1 and 6.2], [Federally Enforceable Through Title V]
28. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.14.1 and 10.0], [Federally Enforceable Through Title V]
29. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F], [Federally Enforceable Through Title V]
30. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart F. [40 CFR Part 82, Subpart F], [Federally Enforceable Through Title V]

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31. Disturbances of soil related to any construction, demolition, excavation, extraction, or water mining activities shall comply with the requirements for fugitive dust control in SJVUAPCD District Rule 8020 (4/25/96) unless specifically exempted under section 4 of Rule 8020 (4/25/96). [District Rule 8020], [Federally Enforceable Through Title V]
32. Outdoor handling and storage of any bulk material which emits dust shall comply with the requirements of SJVUAPCD Rule 8030 (4/25/96), unless specifically exempted under section 4 of Rule 8030 (4/25/96). [District Rule 8030], [Federally Enforceable Through Title V]
33. Any paved road over 3 miles in length, and any unpaved roads over half a mile in length, constructed after December 10, 1993 shall use the design criteria and dust control measures of, and comply with the administrative requirements of, SJVUAPCD Rule 8060 (4/25/96) unless specifically exempted under section 4 of Rule 8060 (4/25/96). [District Rule 8060], [Federally Enforceable Through Title V]
34. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M], [Federally Enforceable Through Title V]
35. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.17], [Federally Enforceable Through Title V]
36. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2], [Federally Enforceable Through Title V]
37. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permit shall apply. [District Rule 2520, 9.1.1], [Federally Enforceable Through Title V]
38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), Rules 201, 202, 203, 204, 208, and 209 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin), Rule 410.1 (Kern), and Rule 423 (Kern, Fresno, Stanislaus, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
39. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (12/17/92); 4601, sections 5.1, 5.2, 5.4, 5.5, 6.1, and 6.2 (12/17/92); 8020 (4/25/96); 8030 (4/25/96); 8060 (4/25/96); A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. Should the facility, as defined in 40 CFR 68.3, become subject to part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 CFR 68.10. The facility shall certify compliance as part of the annual certification as required by 40 CFR part 70. [40 CFR Part 68], [Federally Enforceable Through Title V]
42. On March 23, 2001, the initial Title V permit was issued, the reporting period of the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days of the end of reporting period. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-1-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

885 HP 4-CYCLE TURBOCHARGED WHITE SUPERIOR MODEL #40 6-DX-8 IC ENGINE, DUAL-FIRED WITH DIESEL AND/OR DIGESTER GAS POWERING A 660.0 KW GENERATOR.

**PERMIT UNIT REQUIREMENTS**

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
2. Permittee shall maintain records of analysis and consumption of digester gas. Records shall be retained for a minimum of five years, and provided to the District upon request. [District NSR Rule and 2520, 9.5.2], [Federally Enforceable Through Title V]
3. Records of the amount of diesel fuel consumed and the sulfur content of the diesel fuel shall be maintained, retained on the premises for a period of at least five years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406], [Federally Enforceable Through Title V]
5. Particulate matter emissions shall not exceed in concentration at the point of discharge 0.1 gr/dscf. [District Rule 4201 and Fresno County Rule 404], [Federally Enforceable Through Title V]
6. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight and/or digester gas with a sulfur content not to exceed 4.2% by weight. [District Rule 4801 and Fresno County Rule 406], [Federally Enforceable Through Title V]
7. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The sulfur content of the digester gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084, or D 3246. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. The sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for eight consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-2-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

885 HP 4-CYCLE TURBOCHARGED WHITE SUPERIOR MODEL #40 6-DX-8 IC ENGINE, DUAL-FIRED WITH DIESEL AND/OR DIGESTER GAS POWERING A 660.0 KW GENERATOR.

**PERMIT UNIT REQUIREMENTS**

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
2. Permittee shall maintain records of analysis and consumption of digester gas. Records shall be retained for a minimum of five years, and provided to the District upon request. [District NSR Rule and 2520, 9.5.2], [Federally Enforceable Through Title V]
3. Records of the amount of diesel fuel consumed and the sulfur content of the diesel fuel shall be maintained, retained on the premises for a period of at least five years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406], [Federally Enforceable Through Title V]
5. Particulate matter emissions shall not exceed in concentration at the point of discharge 0.1 gr/dscf. [District Rule 4201 and Fresno County Rule 404], [Federally Enforceable Through Title V]
6. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight and/or digester gas with a sulfur content not to exceed 4.2% by weight. [District Rule 4801 and Fresno County Rule 406], [Federally Enforceable Through Title V]
7. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The sulfur content of the digester gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084, or D 3246. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. The sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for eight consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-3-2

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

28.2 MMBTU/HR VAREC 244W WASTE GAS FLARE AND IGNITION SYSTEM #1 TO INCINERATE EXCESS GASES PRODUCED FROM THE DIGESTION SYSTEMS.

## **PERMIT UNIT REQUIREMENTS**

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1. All equipment shall be maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District NSR Rule], [Federally Enforceable Through Title V]
  2. The flares shall be operated in a manner preventing the emission of noxious odors or other nuisances. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Digester gas flowrate to the flare shall be measured by flow indicator. [District NSR Rule], [Federally Enforceable Through Title V]
  4. Daily records of the number of hours that the flare operates shall be maintained, retained on the premises for a period of at least five years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]
  5. Emissions shall not exceed the following levels: 0.18 lb PM10/hr, 1.8 lb SOx/hr, 2.2 lb NOx/hr, nor 10.5 lb CO/hr. [District NSR Rule], [Federally Enforceable Through Title V]
  6. The permittee shall maintain all records of required monitoring data and support information for inspection and shall make such records readily available to district personnel upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  7. The flare shall not operate if any other flare or gas turbine is in operation. [District NSR Rule], [Federally Enforceable Through Title V]
  8. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201 and Fresno County Rule 404], [Federally Enforceable Through Title V]
  9. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  10. This flare shall be inspected annually while in operation for visible emissions. If visible emissions are observed, corrective action shall be taken. If excess emissions continue, a EPA Method 9 test shall be conducted within 72 hours. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  11. Records of flare maintainance, inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  12. The digester gas shall be tested for sulfur content weekly using Draeger tubes. If source specific historical data (for a period of at least one year) shows seasonal variation of less than 20%, then the digester gas shall be tested quarterly using Draeger tubes. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-4-0

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

28.2 MMBTU/HR VAREC 244W WASTE GAS FLARE AND IGNITION SYSTEM #2 TO INCINERATE EXCESS GASES PRODUCED FROM THE DIGESTION SYSTEMS.

## **PERMIT UNIT REQUIREMENTS**

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1. All equipment shall be maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [ ]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The flares shall be operated in a manner preventing the emission of noxious odors or other nuisances. [ ]
5. Digester gas flowrate to the flare shall be measured by flow indicator. [ ]
6. The total volume of digester gas incinerated at this flare shall be recorded daily. [ ]
7. Daily records of gas flowrate to the flare shall be maintained for two years and shall be made available to the District upon request. [ ]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-5-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

28.2 MMBTU/HR VAREC 244W WASTE GAS STAND BY FLARE AND IGNITION SYSTEM #3 TO INCINERATE EXCESS GASES PRODUCED FROM THE DIGESTION SYSTEM.

## **PERMIT UNIT REQUIREMENTS**

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1. All equipment shall be maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District NSR Rule], [Federally Enforceable Through Title V]
  2. The flares shall be operated in a manner preventing the emission of noxious odors or other nuisances. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Digester gas flowrate to the flare shall be measured by flow indicator. [District NSR Rule], [Federally Enforceable Through Title V]
  4. Daily records of the number of hours that the flare operates shall be maintained, retained on the premises for a period of at least five years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2], [Federally Enforceable Through Title V]
  5. Emissions shall not exceed the following levels: 0.18 lb PM10/hr, 1.8 lb SOx/hr, 2.2 lb NOx/hr, nor 10.5 lb CO/hr. [District NSR Rule], [Federally Enforceable Through Title V]
  6. VOC emissions from the digester shall be reduced by 95% by weight whenever the flare is in operation. [District NSR Rule], [Federally Enforceable Through Title V]
  7. This flare shall not operate if any other flare or gas turbine is in operation. [District NSR Rule], [Federally Enforceable Through Title V]
  8. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201 and Fresno County Rule 404], [Federally Enforceable Through Title V]
  9. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  10. This flare shall be inspected annually while in operation for visible emissions. If visible emissions are observed, corrective action shall be taken. If excess emissions continue, a EPA Method 9 test shall be conducted within 72 hours. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  11. Records of flare maintenance, inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  12. The digester gas shall be tested for sulfur content weekly using Draeger tubes. If source specific historical data (for a period of at least one year) shows seasonal variation of less than 20%, then the digester gas shall be tested quarterly using Draeger tubes. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  13. The permittee shall maintain all records of required monitoring data and support information for inspection and shall make such records readily available to district personnel upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-6-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

ONE 16.7 MMBTU/HR MODEL #NCB 1-700-400 CLEAVER-BROOKS WASTE GAS STEAM BOILER WITH LOW NOX BURNER AND FLUE GAS RECIRCULATION SYSTEM.

## **PERMIT UNIT REQUIREMENTS**

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
2. The flue gas recirculation system shall be operated in accordance with the manufacturer's directions whenever the boiler is operating except during utility outage period. [District NSR Rule], [Federally Enforceable Through Title V]
3. The boiler shall be equipped with an operating individual fuel flow metering device in the digester gas fuel supply line. [District NSR Rule], [Federally Enforceable Through Title V]
4. The boiler may only be fired on digester gas except pilot light which may be fueled with alternate fuel. [District NSR Rule], [Federally Enforceable Through Title V]
5. Digester gas fuel consumption in the boiler shall not exceed 730,400 cubic feet per day. [District NSR Rule], [Federally Enforceable Through Title V]
6. Records of daily fuel consumption shall be maintained, retained on the premises for at least five years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]
7. Daily testing of digester gas is required so as to not exceed an average of 200 ppm as hydrogen sulfide (H<sub>2</sub>S). Corrections shall be made, and re-tested within 3 hours in order to maintain average below 200 ppm. [District NSR Rule], [Federally Enforceable Through Title V]
8. The hydrogen sulfide content shall be tested daily except that if compliance with the hydrogen sulfide content limit has been demonstrated for 21 consecutive days, then the testing frequency shall be monthly. If a test shows noncompliance with the hydrogen sulfide content requirement, the source must return to daily testing until 21 consecutive days shows compliance. [District Rule 2520 9.4.2]
9. Emissions shall not exceed the following levels: 0.08 lb PM<sub>10</sub>/hr, 0.81 lb SO<sub>x</sub>/hr, 0.55 lb CO/hr, 0.046 lb VOC/hr. [District NSR Rule], [Federally Enforceable Through Title V]
10. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081], [Federally Enforceable Through Title V]
11. Emissions shall not exceed any of the following: 0.036 lb NO<sub>x</sub>/MMBtu (or 30 ppmv @ 3% O<sub>2</sub>), 400 ppmv CO @ 3% O<sub>2</sub>. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
12. This unit shall be tested for compliance with the NO<sub>x</sub> and CO emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rule 4305], [Federally Enforceable Through Title V]
13. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
14. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4305], [Federally Enforceable Through Title V]
15. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rule 4305], [Federally Enforceable Through Title V]
16. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305], [Federally Enforceable Through Title V]
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]

## Initial TV Permit

18. The acceptable settings for the flue gas recirculation valve shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing. [District Rule 4305], [Federally Enforceable Through Title V]
19. The flue gas recirculation valve settings shall be inspected at least on a weekly basis. [District Rule 4305], [Federally Enforceable Through Title V]
20. The permittee shall maintain records of the date and time of flue gas recirculation valve settings, and the observed setting. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve setting to within the acceptable rate. These records shall be retained at the facility for a period of no less than 5 years and shall be made available for District inspection upon request. [District Rules 4305 and 2520, 9.5.2], [Federally Enforceable Through Title V]
21. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and take corrective action within one (1) hour after detection. If the flue gas recirculation valve settings are not corrected promptly, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve settings. [District Rule 4305], [Federally Enforceable Through Title V]
22. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>. [District Rules 4201 and 4301, 5.1], [Federally Enforceable Through Title V]
23. The sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. Records of daily sulfur testing results shall be maintained and made available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-9-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

36.3 MMBTU/HR JOHN ZINK COMPANY WASTE GAS FLARE.

## **PERMIT UNIT REQUIREMENTS**

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. The waste gas flare system shall be specifically designed for burning wastewater treatment plant digester gas, and alternate fuel may be used as pilot fuel. [District NSR Rule], [Federally Enforceable Through Title V]
3. The flare system shall have continuous readout and recording of gas flow rate and stack temperature. [District NSR Rule], [Federally Enforceable Through Title V]
4. Flare flue gas temperature shall be maintained to at least 1400 degrees F and 0.6 seconds minimum residence time. [District NSR Rule], [Federally Enforceable Through Title V]
5. Total volume of gaseous fuel flared shall not exceed 1,584,000 scf per day. [District NSR Rule], [Federally Enforceable Through Title V]
6. Daily records of total gas flared shall be maintained, retained on the premises for a period of at least five years and made available for District inspection upon request. [District NSR Rule and 2520, 9.4.2], [Federally Enforceable Through Title V]
7. The flare shall be operated in a manner preventing the emission of noxious odors or other nuisances. [District NSR Rule]
8. Daily testing of digester gas is required so as to not exceed an average of 200 ppm as hydrogen sulfide (H<sub>2</sub>S). Corrections shall be made, and re-tested within 3 hours in order to maintain average below 200 ppm. [District NSR Rule], [Federally Enforceable Through Title V]
9. Emissions shall not exceed the following levels: 0.18 lb PM<sub>10</sub>/hr, 1.8 lb SO<sub>x</sub>/hr, 2.2 lb NO<sub>x</sub>/hr, nor 10.5 lb CO/hr. [District NSR Rule], [Federally Enforceable Through Title V]
10. VOC emissions from the flare shall be reduced by at least 95% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
11. The sulfur content of gas being flared shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201 and Fresno County Rule 404], [Federally Enforceable Through Title V]
13. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. This flare shall be inspected annually while in operation for visible emissions. If visible emissions are observed, corrective action shall be taken. If excess emissions continue, a EPA Method 9 test shall be conducted within 72 hours. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Records of flare maintenance, inspections and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. Records of daily sulfur testing results shall be maintained and made available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-10-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

2518 HP CATERPILLAR MODEL 3516 EMERGENCY TURBOCHARGED DIESEL-FIRED IC ENGINE POWERING 1750 KW GENERATOR.

**PERMIT UNIT REQUIREMENTS**

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
3. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [District NSR Rule, 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
4. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. Records of operating hours shall be kept for units operating less than 200 hours per year. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule], [Federally Enforceable Through Title V]
13. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule], [Federally Enforceable Through Title V]
14. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule], [Federally Enforceable Through Title V]
15. The engine shall be operated only for maintenance, test, and required regulatory purposes, and during emergency situations. [District NSR Rule], [Federally Enforceable Through Title V]
16. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule], [Federally Enforceable Through Title V]

## **Initial TV Permit**

17. The permittee shall maintain records of hours of operation and of the sulfur content of the diesel fuel used and shall make such records readily available to District staff upon request. [District Rule 1070], [Federally Enforceable Through Title V]
18. If engine operates with visible emissions greater than 1/2 Ringelmann or 10% opacity, compliance with particulate matter emissions shall be conducted by District-witnessed sample collection within 60 days of District determination. [District Rule 1081], [Federally Enforceable Through Title V]
19. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-11-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

140 HP CATERPILLAR MODEL #3116-DIT EMERGENCY TURBOCHARGED DIESEL FIRED IC ENGINE #1 SERVING A WATER TRANSFER PUMP.

**PERMIT UNIT REQUIREMENTS**

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
3. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
4. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. Records of operating hours shall be kept for units operating less than 200 hours per year. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule], [Federally Enforceable Through Title V]
13. This engine shall be operated only for maintenance testing, and required regulatory purposes, and during emergency situations. [District NSR Rule], [Federally Enforceable Through Title V]
14. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule], [Federally Enforceable Through Title V]
15. Records of hours of emergency and non emergency operation and of the sulfur content of the diesel fuel used shall be maintained, retained on the premises for a period of five years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]

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16. If engine operates with visible emissions greater than 1/2 Ringelmann or 10% opacity, compliance with particulate matter emissions shall be conducted by District-witnessed sample collection within 60 days of District determination. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
18. NOx emission rate shall not exceed 6.0 g/hp-hr. [District NSR Rule], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-12-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

140 HP CATERPILLAR MODEL #3116-DIT EMERGENCY TURBOCHARGED DIESEL FIRED IC ENGINE #2 SERVING A WATER TRANSFER PUMP.

**PERMIT UNIT REQUIREMENTS**

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
3. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
4. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. Records of operating hours shall be kept for units operating less than 200 hours per year. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule], [Federally Enforceable Through Title V]
13. This engine shall be operated only for maintenance testing, and required regulatory purposes, and during emergency situations. [District NSR Rule], [Federally Enforceable Through Title V]
14. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule], [Federally Enforceable Through Title V]
15. Records of hours of emergency and non emergency operation and of the sulfur content of the diesel fuel used shall be maintained, retained on the premises for a period of five years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]

## Initial TV Permit

16. If engine operates with visible emissions greater than 1/2 Ringelmann or 10% opacity, compliance with particulate matter emissions shall be conducted by District-witnessed sample collection within 60 days of District determination. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
18. NOx emission rate shall not exceed 6.0 g/hp-hr. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-13-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

150 HP ODOR CONTROL SCRUBBING SYSTEM INCLUDING THREE(3) 50 HP RJ ENVIRONMENTAL PACKED TOWER CAUSTIC SCRUBBERS EACH EQUIPPED WITH A KIMRE MIST ELIMINATOR MODEL B-GON.

## **PERMIT UNIT REQUIREMENTS**

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1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
  2. Maximum design influent flow rate through headworks shall not exceed 80 MGD. [District NSR Rule], [Federally Enforceable Through Title V]
  3. The total emissions from this operation shall not exceed 0.075 pounds VOC per MGD of influent flow. [District NSR Rule], [Federally Enforceable Through Title V]
  4. Scrubbers shall be maintained and operated according to manufacturer's specifications. [District NSR Rule], [Federally Enforceable Through Title V]
  5. Scrubber liquid to gas ratio shall be observed and recorded weekly during operation of this unit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  6. Records of scrubber liquid to gas ratio shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  7. Records of daily influent flow rate through headworks shall be maintained and shall be made available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-14-2

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

SEPTAGE ODOR CONTROL SYSTEM SERVED BY A 20 HP 9'H X 8'D WEST STATES CARBON, CARBON ADSORPTION VESSEL, MODEL UOCH-KP.

## **PERMIT UNIT REQUIREMENTS**

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1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
  2. Maximum design septage flow shall not exceed 0.021 MGD. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Carbon adsorption bed shall be maintained and operated according to manufacturer's specifications. [District NSR Rule], [Federally Enforceable Through Title V]
  4. Records of daily septage flow rate shall be maintained and shall be made available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-535-17-1

**EXPIRATION DATE:** 01/31/2006

**EQUIPMENT DESCRIPTION:**

455 HP CUMMINS MODEL NTA855 EMERGENCY DIESEL-FIRED IC ENGINE POWERING AN ONAN MODEL 350DFCC, 350 KW EMERGENCY GENERATOR SET.

**PERMIT UNIT REQUIREMENTS**

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201; Rule 402 (Madera) and 404 (all 7 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
3. Unit shall be fired only on diesel fuel with a sulfur content of less than 0.05% by weight. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
4. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. Records of operating hours shall be kept for units operating less than 200 hours per year. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. On all units which are not emergency or backup IC engines operating less than 200 hours per year, operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Test results from an engine that represents a group of engines in terms of rated brake horsepower, engine make and series, operational conditions, fuel used, and control method, shall satisfy testing requirements provided this group of engines is owned and operated by a single owner/operator. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
13. Emissions shall not exceed 5.61 g NOx/bhp-hr. [District NSR Rule], [Federally Enforceable Through Title V]
14. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule], [Federally Enforceable Through Title V]
15. The engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes, shall not exceed 200 hours per year. [District NSR Rule and District Rule 4701], [Federally Enforceable Through Title V]

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16. The permittee shall maintain records of hours of non-emergency operation and of the sulfur content of the diesel fuel used. Such records shall be made available for District inspection upon request for a period of five years. [District Rules 1070 and 2520, 9.5.2], [Federally Enforceable Through Title V]

## Initial TV Permit